

John M. Rogers

Education

- B.S., University of Miami, Coral Gables, FL; Biology, 1976.
- M.S., University of Miami, Coral Gables, FL; Biology, 1979.
- Ph.D., University of Miami, Coral Gables, FL; Biology, 1982.

Professional Experience

- 1984-present: Research Biologist, EPA.
- 1991-present: Chief, Developmental Biology Branch, RTD, NHEERL, EPA.

Research Interests

Mechanisms of normal and abnormal development, maternal toxicity, maternal nutrition.

Professional Activities

- Editorial Board: Birth Defects Research Part B, Reproductive and Developmental Toxicology.
- Treasurer, Teratology Society. 1998-2004.
- Vice president elect (2002), vice president (2003), president (2004), past president (2005), Reproductive and Developmental Toxicology Specialty Section, Society of Toxicology. 2002-2005.
- Recipient, Lucille S. Hurley Award, 2005; Robert L. Brent Award, 2006.
- Member, Panel on Hydroxyurea, Center for the Evaluation of Risks to Human Reproduction. 2006.
- Co-chair, SOT Symposium, "Developmental Toxicology of the Lung," Society of Toxicology Annual Meeting. 2005.
- Co-chair, SOT Workshop, "Zebrafish – A Model Organism for Assessing Developmental Toxicity in Drug Discovery/Environmental Risk Assessment," Society of Toxicology Annual Meeting. 2004.
- Member, FASEB National Institutes of Health Federal Funding Committee (representing the Teratology Society). 2005-present.
- Member, EPA Pregnancy and Environmental Health Campaign, 2005-present.
- Member, Strategic Planning Committee, Teratology Society. 2002.
- Member, Panel on Methanol, Center for the Evaluation of Risks to Human Reproduction. 2000-2002.

Invited Lectures/Symposia

- University of Louisville, Louisville, KY: Long term effects of the developmental environment: Implications for developmental toxicity risk assessment. 2006.
- Round Table on “Dose-Dependent Transitions in Mechanisms of Toxicity,” EUROTOX Meeting, Cavtat, Croatia: Case example: Zinc. 2006.
- Robert L. Brent Lecture, Teratology Society Annual Meeting, Tucson, AZ: Of men, mice, monkeys and metabolism: An update on the developmental toxicity of methanol. 2006.
- Lucille S. Hurley Distinguished Seminar Speaker, Department of Nutrition and Western Human Nutrition Research Center, University of California, Davis, CA: Maternal dietary folate intake and response to diverse developmental toxicants in rodents. 2005.
- Neurotoxicology Division, National Health and Environmental Effects Research Laboratory, EPA: Everything I needed to know I learned in the womb: Developmental origins of health and disease. 2005.
- International Life Sciences Institute/Health and Environmental Sciences Institute sponsored Continuing Education Course: “Dose-Dependent Transitions in Mechanisms of Toxicity: What Are They? How Are They Applied in Risk Assessment?” Annual Meeting of the American College of Toxicology, Williamsburg, VA: Case example: Zinc. 2005.
- Continuing Education Course on Basics of Developmental Toxicology, Society of Toxicology Annual Meeting, New Orleans, LA: Fetal skeletal examinations. 2005.
- International Union of Toxicologists Meeting, Tampere, Finland: Evaluation and interpretation of maternal toxicity in Segment II studies: Issues, some answers and data needs. 2004.
- Mars/MDRU Conference on Epigenetics: Fetal origins of Health, McLean, VA: The Barker Hypothesis: Implications for Human Health and Well-Being. 2004.
- Mini-Symposium on Significance of Fetal Variations in Developmental Toxicity Studies and Relevance for Human Risk Assessment, Middle Atlantic Reproduction and Teratology Association Meeting, Philadelphia, PA: Regulatory issues and overview of an ILSI workshop. 2002.
- Symposium on the Potential for Modeling to Improve Children’s Risk Assessment, Society of Toxicology Annual Meeting, Nashville, TN: Development of biologically-based dose response models for developmental toxicology. 2002.
- Distinguished Scientist Lecture Series, Department of Molecular Biomedical Sciences, College of Veterinary Medicine, North Carolina State University, Raleigh, NC: Approaches to the elucidation of mechanisms of chemically-induced birth defects: Model and environmental chemicals. 2002.

Selected Publications

Liebelt EL, Balk SJ, Faber W, Fisher JW, Hughes CL, Lanzkron SM, Lewis KM, Marchetti F, Mehendale HM, Rogers JM, Shad AT, Skalko RG, Stanek EJ. 2007. NTP-CERHR expert panel report on the reproductive and developmental toxicity of hydroxyurea. *Birth Defects Res B Dev Reprod Toxicol.* 80:259-366. [Abstract](#)

Rogers JM. 2006. The Barker Hypothesis: Implications for future directions in toxicology research. *13:536-40.* [Abstract](#)

Rogers JM. 2006. Casting a broad network: Fishing for mechanisms of retinoid teratogenicity. *Toxicol Sci.* 94:1-2. [Abstract](#)

Lau C, Thibodeaux JR, Hanson R, Narotsky MG, Rogers JM, Lindstrom AB, Strynar MJ. 2006. Effects of perfluorooctanoic acid exposure during pregnancy in the mouse. *Toxicol Sci.* 90:510-519. [Abstract](#)

Grasty R, Bjork JA, Wallace KB, Wolf DC, Lau C, Rogers JM. 2005. Effects of prenatal perfluorooctane sulfonate (PFOS) exposure on lung maturation in the perinatal rat. *Birth Defects Res B Dev Reprod Toxicol.* 74:405-16. [Abstract](#)

Rogers JM, Chernoff N, Keen CL, Daston GP. 2005. Evaluation and interpretation of maternal toxicity in Segment II studies: Issues, some answers and data needs. *Toxicol Appl Pharmacol.* 207:367-74. [Abstract](#)

Massaro EJ, Rogers JM. 2005 *The Skeleton: Biochemical, Genetic and Molecular Interactions in Development and Homeostasis*. Humana Press, Boca Raton, FL. 456 pages.

Lau C, Rogers JM. 2004. Embryonic and fetal programming of physiological disorders in adulthood. *Toxicol Appl Pharmacol.* 72:300-12. [Abstract](#)

Chernoff N, Rogers JM. 2004. Supernumerary ribs in developmental toxicity bioassays and in human populations: Incidence and biological significance. *J Toxicol Environ Health B Crit Rev.* 7:437-49. [Abstract](#)

Slikker W, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB, David RM, Doerrner NG, Dorman DC, Gaylor DW, Hattis D, Rogers JM, Setzer RW, Swenberg JA, Wallace K. 2004. Dose-dependent transitions in mechanisms of toxicity: Case studies. *Toxicol Appl Pharmacol.* 201:226-94. [Abstract](#)

Lau C, Butenhoff JL, Rogers JM. 2004. The developmental toxicity of perfluoroalkyl acids and their derivatives. *Toxicol Appl Pharmacol.* 198:231-41. [Abstract](#)

Degitz SJ, Rogers JM, Zucker RM, Hunter ES. 2004. Developmental toxicity of methanol: Pathogenesis in CD-1 and C57BL/6J mice exposed in whole embryo culture. *Birth Defects Res A Clin Mol Teratol.* 70:179-84. [Abstract](#)

Degitz SJ, Zucker RM, Kawanishi CY, Massenburg GS, Rogers JM. 2004. Pathogenesis of methanol-induced craniofacial defects in C57bBL/6J mice. *Birth Defects Res A Clin Mol Teratol.* 70:172-8. [Abstract](#)

Rogers JM, Brannen KC, Barbee BD, Zucker RM, Degitz SJ. 2004. Methanol exposure during gastrulation causes holoprosencephaly, facial dysgenesis, and cervical vertebral malformations in C57bBL6J mice. *Birth Defects Res B Dev Reprod Toxicol.* 71:80-8. [Abstract](#)

Rogers JM, Setzer RW, Branch S, Chernoff N. 2004. Chemically induced supernumerary lumbar ribs in CD-1 mice: Size distribution and dose response. *Birth Defects Res B Dev Reprod Toxicol.* 71:17-25. [Abstract](#)

Grasty RC, Wolf DC, Grey BE, Lau C, Rogers JM. 2003. Prenatal window of susceptibility to perfluorooctane sulfonate-induced neonatal mortality in the Sprague-Dawley rat. *Birth Defects Res B Dev Reprod Toxicol.* 68:465-71. [Abstract](#)

Tarka-Leeds DK, Herr DW, Klinefelter GR, Rogers JM. 2003. Effects of gestational exposure to ethane dimethanesulfonate in CD-1 mice: Microtia and preliminary hearing tests. *Birth Defects Res B Dev Reprod Toxicol.* 68:383-90. [Abstract](#)

Rogers EH, Hunter ES, Rosen MB, Rogers JM, Lau C, Hartig PC, Francis BM, Chernoff N. 2003. Lack of evidence for intergenerational reproductive effects due to prenatal and postnatal undernutrition in the female CD-1 mouse. *Reprod Toxicol.* 17:519-25. [Abstract](#)

Rogers JM, Abbott BD. 2003. Screening for developmental toxicity of tobacco smoke constituents. *Toxicol Sci.* 75:227-8. [Abstract](#)

Hanna LA, Clegg MS, Momma TY, Daston GP, Rogers JM, Keen CL. 2003. Zinc influences the *in vitro* development of peri-implantation mouse embryos. *Birth Defects Res A Clin Mol Teratol.* 67:414-20. [Abstract](#)

Thibodeaux JR, Hanson RG, Rogers JM, Grey BE, Barbee BD, Richards JH, Butenhoff JL, Stevenson LA, Lau C. 2003. Exposure to perfluorooctane sulfonate during pregnancy in rat and mouse. I: Maternal and prenatal evaluations. *Toxicol Sci.* 74:369-81. [Abstract](#)

Lau C, Thibodeaux JR, Hanson RG, Rogers JM, Grey BE, Stanton ME, Butenhoff JL, Stevenson LA. 2003. Exposure to perfluorooctane sulfonate during pregnancy in rat and mouse. II: Postnatal evaluation. *Toxicol Sci.* 74:382-92. [Abstract](#)

Tarka-Leeds DK, Suarez JD, Roberts NL, Rogers JM, Hardy MP, Klinefelter GR. 2003. Gestational exposure to ethane dimethanesulfonate permanently alters reproductive competence in the CD-1 mouse. *Biol Reprod.* 69:959-67. [Abstract](#)

Keen CL, Clegg MS, Hanna LA, Lanoue L, Rogers JM, Daston GP, Oteiza P, Uriu-Adams JY. 2003. The plausibility of micronutrient deficiencies being a significant contributing factor to the occurrence of pregnancy complications. *J Nutr.* 133:1597S-1605. [Abstract](#)

Corley RA, Mast TJ, Carney EW, Rogers JM, Daston GP. 2003. Evaluation of physiologically based models of pregnancy and lactation for their application in children's health risk assessments. *Crit Rev Toxicol.* 33:137-211. [Abstract](#)

Leazer TM, Daston GP, Keen CL, Rogers JM. 2003. The embryoletality of lipopolysaccharide in CD-1 and metallothionein I-II null mice: Lack of a role for induced zinc deficiency or metallothionein induction. *Toxicol Sci.* 73:442-7. [Abstract](#)

Massaro EJ, Rogers JM. 2002. *Folate in Human Development*. Humana Press, Boca Raton, FL. 376 pages.